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ATTORNEY DOCKET NO. HIG05 001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Patent Application of Kentaro Nakada, et al.

Serial No.: 09/729,989

Art Unit: 2614

Filed: December 6, 2000

Examiner: Paulos M. Natnael

Title: BROADCASTING SYSTEM OF DATA BROADCAST IN TELEVISION
BROADCASTING

TRANSMITTAL

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

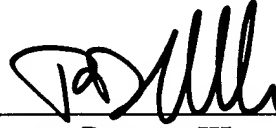
Transmitted herewith is a Response to the Office Action dated May 3, 2005, for the above-identified Application.

If a Petition for an Extension of Time is necessary for the paper transmitted herewith to be timely filed, this transmittal is to be considered as a petition to extend the response period by the amount of time needed for the paper to be timely filed.

The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 04-1679.

A duplicate of this sheet is enclosed.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'L. Lawton Rogers, III', written over a horizontal line.

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RESPONSE

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Sir:

In response to the Office Action dated May 3, 2005, Applicant responds as follows:

The present application is directed to the wireless transmission of television programs to a user to allow a level of interactiveness with the user that has not previously been afforded in wireless television broadcasting. In a conventional wireline television broadcast to a user, such as in a cable television system, interactive programming is available to the customer due to the two-way communication between the broadcaster

and the customer. In a wireless broadcast system, such as a satellite broadcast system, interactivity is not permitted and users can merely select one television program from the respective programs broadcast at the same time. In a satellite broadcast system, the problem is that while images corresponding to plural entertainment programs can be streamed on one channel for broadcast to a receiver, the audio signal band is not sufficient to send the sound signals corresponding to the image signals for the plural entertainment programs in a single channel. The applicant solves this problem by using a computer executable program to mix the audio signals corresponding to the images for the plural entertainment programs. The image and sound signal for the plural entertainment programs are transmitted on a single channel to the receiver and the computer executable program which mixed the sound signals is transmitted to the receiver on the data broadcast band. The computer executable program is used to provide the sound signals corresponding to the one of the plurality of entertainment programs which is selected for display at the receiver. Thus the sound signals and the image signals of the plurality of entertainment program are broadcast in a single channel and the user can select one of the plurality of entertainment programs from the single channel. Such a method was not possible in the prior art wireless broadcast systems.

Each of the prior art cited by the examiner is not directed to solving the problem identified above, and none of the cited art disclosed broadcast the image and sound signals for plural programs in a single channel and using a computer executable code to provide the sound signals corresponding to a selected television program.

For example, Claims 6-8 are rejected as anticipated by Kuzma. Kuzma discloses multiplexing an analog broadcast signal of a single television program with an HTML web page on a single broadcast channel, or providing a digital broadcast signal in one channel and a HTML web page in a separate channel. Kuzma is silent with respect to “mixing the sound signals of the plural entertainment programs using a computer executable code” and “broadcasting the image signals and the sound signals for the plurality of entertainment programs on one channel”. Note that in Kuzma, the HTML script contains a computer executable code, however, the computer executable code directs the scripting unit 220 to coordinate the encoding of HTML web pages, and does not mix the sound signals nor provide the sound corresponding to the selected one of the plural entertainment programs as required by the claim limitations.

Likewise, Kostreski is not directed to broadcasting a plurality of entertainment programs in a single channel of a wireless broadcast system. There is no disclosure of “mixing the sound signals of the plural entertainment programs using a computer executable code” and “broadcasting the image signals and the sound signals for the plurality of entertainment programs on one channel” and “using the computer executable program to provide the sound corresponding to the selected one of the plural entertainment programs.” Note that the Kostreski describes a conventional cable television system and the computer executable software provides audio/video information outputs to the user selected from multiple channels, not from a single broadcast channel.

Cohen discloses a method of broadcasting television programming, where an executable code is broadcast with television programming. However, several objects may be transmitted simultaneously only if each object is assigned a separate channel. Col. 19, lines 48-51. Note that an object can be a television program, but that Cohen requires a separate channel for each program, rather than images and sound signals for plural television programs on one channel. There is also no disclosure of “mixing the sound signals of the plural entertainment programs using a computer executable code” and “using the computer executable program to provide the sound corresponding to the selected one of the plural entertainment programs.”

Thus, each of the cited art discloses different method of broadcasting television programming, and none of the art discloses the specific limitations as set forth in Claim 6. Reconsideration and allowance of Claim 6 is requested.

As the remaining claims depend from Claim 6, they are allowable with Claim 6 without recourse to the further patentable limitations respectively recited therein.

Respectfully submitted,



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